

# Procedures for Installing MassGIS Data Viewer 3.x

/code/av/projects/viewer/docs/install.doc - Last updated – 5/28/03

step by step Instructions with illustrations are included on your CD:

If you do not have ArcView, use /data/docs/runtinst.doc (Microsoft Word) or /data/docs/runtinst.pdf (free Adobe Acrobat Reader needed)

If you have ArcView, use /31/data/docs/fullinst.doc (Microsoft Word) or /31/data/docs/fullinst.pdf (free Adobe Acrobat Reader needed)

<http://www.adobe.com/products/acrobat/readstep.html>

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## Overview of Installation of the MassGIS Data Viewer:

There are 2 parts to the installation.

**Part 1.** Installing the MassGIS Data Viewer (a small program)

**Part 2.** Installing actual MassGIS data (a large amount of data files)

You must do Part 1 above. You may choose to skip Part 2 if you have received only 1 CD. This CD you may leave in the CD-ROM drive and access the data directly from the CD. If you received more than 1 CD from MassGIS, in order to have access to all the data at one time, you will have to install some data onto a hard drive.

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## Starting the Installation:

### Part 1. Installing the MassGIS Data Viewer program

#### A. Before you start, consider these computer system requirements:

Requirements for any of the three MassGIS Data Viewer versions:

- At least 40 Megabytes of hard drive space available

- We recommend at least 32 MB of RAM (computer memory)

- At 32 MB, drawing will still be fairly slow. 64MB or higher is better.

All versions require Windows 95 or higher. The runtime version must run on a PC.

The full version of the MassGIS Data Viewer can run on PC or UNIX.

Additional requirements for the ArcView 3.1.1+ versions of the MassGIS Data Viewer:

- A copy of the ArcView 3.1.1, ArcView 3.2a, or ArcView 3.3 software.

**NOTE: The Runtime version is FREE from MassGIS and does not need ArcView software**

If you received more than 1 CD, you will have to install all the data to your hard drive. Be aware that MassGIS CDs contain 650MB of data.

Computer memory (RAM) is fairly inexpensive. More RAM can greatly speed up the MassGIS Data Viewer.

Increasing the amount of RAM is more effective than increasing the speed of your computer's processor chip, although this will also help. If you have only 1 CD of data, and choose to leave it in the CDROM drive, the faster your CDROM drive, the faster your access to the data will be. You can access the data from any speed CDROM drive, however.

#### B. Choose one of the versions of the MassGIS Data Viewer to use and follow the installation instructions for that version below:

The MassGIS Data Viewer (Viewer) is included on the CD you ordered (or the first CD in the set) and must be installed to a local hard drive. We are currently giving out 3 types of MassGIS Data Viewer. This gives you the option of changing the type of viewer you wish to install if you purchase or upgrade the ArcView software. You should have an ArcView 3.1.1 "runtime" version of the MassGIS Data Viewer (which you would install if you do not

have the ArcView software), an ArcView 3.1.1 version of the MassGIS Data Viewer (which you would install if you have ArcView 3.1.1 or higher). The "Runtime" version was created with ArcView's Data Publisher product.

Installation differs depending on whether you use the "Full" or "Runtime" version of the Viewer.

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### **Runtime Version Installation: (FREE from MassGIS – you do not need ArcView to run this)**

This version of the Viewer is the easiest to install, but does not have all the features of the Full version (projects can not be saved, and new data cannot be created).

1. From the Start button, choose Run, and type d:\setup.exe (if your CD-ROM drive is a different letter, substitute it for d: above).
2. Follow the prompts. Be sure to choose both "PROGRAM" and "DATA" when prompted for components to install. (You may see an error message during installation. Just click OK and continue - the program will not be affected).
3. Double click on the "MassGIS Data Viewer" Icon in the new MassGIS Data Viewer program group. Enter the letter of your CD-ROM drive when prompted.

Note: The Theme/Describe menu that previously brought up a text file of metadata about a theme no longer works. However, there is a local copy of the MassGIS web site on the CD in the web directory. The web directory may be copied to your c:\massgis directory. (or wherever the Runtime Data Viewer was installed. The web directory needs to be at the same level as to the data directory). To start browsing this local copy of web site, open a web browser (e.g. Internet Explorer or Netscape) and File/Open to c:\massgis\web\massgis.htm. This is the front page of the web site. Browse this local copy of the web site as you would an online web site.

You're DONE – skip the part below which talks about the full version.

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### **Full Version Installation (3.1.1 version or higher– requires that you already have ArcView 3.1.1 or higher):**

This version of the Viewer is the most powerful, taking advantage of all of ArcView's editing capabilities and allowing you to save changes you make to your ArcView environment. This version should run on any computer that can run ArcView (the Data Viewer has been successfully run by users on Macintoshes running ArcView and Windows emulation software).

#### **1. What to do:**

Create a hard drive directory called "viewer" on your hard drive. (This directory need not be called "viewer", this is just a suggestion.)

#### **How to do it:**

Using the Windows Explorer, highlight your hard drive letter and choose the File menu. Hold your mouse over the "New" option, and move the mouse right to choose the "Folder" option. A new folder will appear in the right hand column. Type in a name for this folder.

#### **2. What to do:**

Copy the "data" directory under the "31" directory from the CD-ROM to the directory you just created.

#### **How to do it:** (There are multiple ways to do this. Here is one way)

Still in the Windows Explorer, click on your CD-ROM drive icon. Highlight the "data" directory under the 31 directory. To copy, choose Copy from the Edit menu. Now highlight the folder you want to copy this folder to (c:\viewer), and choose Paste from the Edit menu.

If your hard drive happens to be named c: and you named your directory viewer you should now have a c:\viewer\data directory.

#### **3. What to do:**

Remove the "Read Only" flag from the files you just copied to the Data directory. Remove the "Read Only" flag from the data directory itself.

**How to do it:**

In Windows Explorer, highlight your hard drive's viewer\data directory. Select all of the files in this directory by highlighting them in the right hand column. Choose Properties from the File menu. In the "Properties" window, click on the box next to "Read Only" until it is empty, then hit OK. Right click on the data directory. Choose Properties from the File menu. In the "Properties" window, click on the box next to "Read Only" until it is empty, then hit OK.

**4. What to do:**

Launch the MassGIS Data Viewer.

**How to do it:**

To run the MassGIS Data Viewer from within ArcView 3.1.1 or higher, choose File / Open Project and select c:\viewer\data\sav30mg2.apr.

Note: The Theme/Describe menu that previously brought up a text file of metadata about a theme will now bring up a web page about the theme from a local copy of the MassGIS web site from the web directory. The web directory may be copied to your c:\massgis directory. (or wherever the Data Viewer was installed. The web directory needs to be at the same level as to the data directory). It is also possible to browse this local copy of web site. Simply open a web browser (e.g. Internet Explorer or Netscape) and File/Open to c:\massgis\web\massgis.htm (or wherever you massgis.htm file is located in the web directory). This is the front page of the web site. Browse this local copy of the web site as you would an online web site.

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## **Part 2. Installing the MassGIS data (optional if you have only 1 CD):**

For best performance, it is recommended that the geographic data also be copied to a hard drive. If sufficient hard disk space is not available, and you do not have a multiple CD set, the data can reside on the CD. In multiple CD sets, the data spans several CDs and generally all data MUST be installed to the hard drive so that you can access the data correctly. Each MassGIS CD is 650MB if it is completely full. See below for more information on multiple CD sets.

The MassGIS Data Viewer CD contains both the Viewer and a subset of the MassGIS database. You may have multiple CDs in a set. In order to run the Viewer, certain files must be copied to a hard drive, as described in **Installing the MassGIS Data Viewer program** above. If you have only one CD, the data can be kept on the CD, but copying the data to a hard drive will greatly increase the speed of the Viewer (because it is generally faster for a computer to read data off it's hard drive than to read data from a CD).

Data on a MassGIS Data Viewer CD are all in the directory called "gisdata." Each subdirectory of "gisdata" holds a different type of data. Any imagery (scanned USGS quads, orthophotos) is in the "images" subdirectory; the men1 directory holds "vector" data.

### **Standard data installation from the CD to your hard drive**

1. In Windows Explorer, navigate to the hard drive where you installed the Viewer's "data" directory. (For Runtime installations, this will be c:\massgis (or whatever you chose to name it), for Full version installations, this will be c:\viewer.
2. If it does not already exist, create a subdirectory called "gisdata." Choose Create Directory from the File menu. Type "gisdata" in the Name box and click OK.
3. Navigate into the "gisdata" subdirectory on your hard drive.
4. Click on the CD-ROM icon, and navigate into the "gisdata" subdirectory on the CD.

5. Drag the subdirectory (or subdirectories) you wish to copy onto your hard drive's icon. The prompt should say "Are you sure you want to copy the selected files and directories to c:\viewer\gisdata?" (the important part is that it end with "gisdata"). If it is correct, click "Yes."

### Multiple CD Sets

If you have a **regional** multiple CD you may need to add orthophoto and USGS quad images from the CDs to your hard drive by creating directories and copying files. If your viewer files are in "c:\viewer\data" then you will need to create a "c:\viewer\gisdata\images" directory if it does not already exist. If you had all the different types of images, your directory tree for images could look like this:

```
c:\viewer\gisdata\images\quadsid (these are the MrSID images of the USGS topos)
c:\viewer\gisdata\images\halfmsid (these are the half meter MrSID images of the black and white orthophotos)
c:\viewer\gisdata\images\oq1sid (these are the 1 meter MrSID images of the black and white orthophotos)
c:\viewer\gisdata\images\coqhsid (these are the half meter MrSID images of the 2001 color orthophotos)
c:\viewer\gisdata\images\coqhd1sid (these are the 1 meter MrSID images of the 2001 color orthophotos)
c:\viewer\gisdata\images\coq2001halfmsidm (these are the 1/2 meter MrSID mosaic images of the 2001
color orthophotos that can be ordered separate from the regional
viewer)
```

You should take your image CD set, of whatever type, and copy the directory under the Images directory to your gisdata directory.

### "Non-standard" data installation

You may wish to copy data to a location other than the "gisdata" directory where the Viewer is installed. In some cases, the hard drive where the Viewer is installed is not the best location for you to copy the data. The Viewer automatically looks for the data in the hard drive and CD-ROM "gisdata" directories. To tell the Viewer to look elsewhere for data, you must edit a file called environ.txt that is in the "data" directory on your hard drive. Each subdirectory of "gisdata" has an entry in the environ.txt file. For each one that you install in a "non-standard" location, enter the full path to the data after the equal sign.

For example, if I copy the basin subdirectory of gisdata from the CD to a directory on my hard drive called avdata, I would edit the following line of environ.txt.:

```
MEN1=men1
```

This would be changed to:

```
MEN1=c:\avdata\men1
```

You can have other multiple drive letters in your environ.txt file if you have a partitioned hard drive or multiple hard drives in your computer and have data in different areas. You can have other drive letters if you have data across a network. For example, if the "men1" directory has been copied to a network drive assigned to the letter "g" then the "MEN1=men1" line in environ.txt should be modified to become "MEN1=g:\men1". Or, if the "men1" directory were installed in some subdirectory of the "g" network drive (e.g. \data\massgis) then this line would be "MEN1=g:\data\massgis\men1".

It is possible to install some subdirectories of "gisdata" on the network, some locally, and keep some on the CD. Note that entire subdirectories of \gisdata must be copied. That is, you cannot split the "\gisdata\men1" subdirectory to be partially on the hard disk and partially on the CD or a network drive.

\*\* If you copy data to the "gisdata" directory where you installed the Viewer, you do not need to change the environ.txt file. \*\*

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### Frequently Asked Questions while running the Viewer:

Q: It seems that there is some data missing. Is something wrong?

A: It is possible that the error message you are getting is valid because the particular type of data you are asking for is not available for the area you are looking at. 5K Wetlands, for example, are currently available for only part of the state. To find out if the data you are looking for is available you can use the "A" button on the viewer to bring up the list of theme menus and then choose "Status.", or you can check the MassGIS web site: <http://www.mass.gov/mgis/maps.htm> There are several maps that can inform you as to what geographic areas of the state are lacking certain types of data. Also, the data on your CD may not be the latest available if some time has passed since you ordered it. The MassGIS website is the best place to check for updates: <http://www.mass.gov/mgis/whatsnew.htm>

For questions about installation and use of the MassGIS Data Viewer, use this form to request help: [http://www.mass.gov/mgis/vwr\\_help.htm](http://www.mass.gov/mgis/vwr_help.htm) or contact:

Aleda Freeman 617-626-1193 email: [Aleda.Freeman@state.ma.us](mailto:Aleda.Freeman@state.ma.us)

## **DOCUMENTATION:**

On the CD in the /data/docs directory and the /31/data/docs directory are various tutorials and documentation about the Viewer. These files and more are also available online: <http://www.mass.gov/mgis/viewer.htm>